Panasonic®

Hands-Free Kit featuring **Bluetooth®** technology
Technologie kit mains libres à caractéristique **Bluetooth®**
Juego de manos libres con tecnología **Bluetooth®**

CY-BT100U

Operating Instructions
Manuel d'instructions
Manual de Instrucciones

Bluetooth®

- Please read these instructions (including "Limited Warranty" and "Customer Services Directory") carefully before using this product and keep this manual for future reference.
- Prière de lire attentivement ces instructions (y compris la "Garantie limitée" et le "Répertoire des services à la clientèle") avant d'utiliser ce produit et conserver ce mode d'emploi pour s'y référer ultérieurement.
- Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

Safety Information

■ Read the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

■ This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.

Warning

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.

Caution

This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.

⚠Warning

Observe the following warnings when using this unit.

❑ **Comply with regulations**
Always comply with legal requirements and local restrictions when using this unit.

❑ **Keep away from the medical devices.**
This unit and mobile phones can interfere with the functioning of medical devices such as hearing aids or pacemakers. **Failure to observe this may arise the malfunction of medical devices resulting in personal injury or death.**

❑ **The driver should not neither adjust the unit nor make a pair while driving.**
Adjusting the unit or making a pair of this unit and the mobile phone will distract the driver from looking ahead of the car and can cause accidents. Always stop the car in a safe location and use the parking brake before adjustment or making a pair.

⚠Warning

❑ **Use the proper power supply (12 V).**
This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

❑ **Do not disassemble or modify the unit.**
Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Servicenter.

❑ **Do not use the unit when it is out of order.**
If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.

❑ **Stop using this unit and mobile phone whenever requested.**
This unit shares the communication frequency with other private or public wireless communication equipment such as a wireless LAN and other wireless communication radios. You should stop using this unit whenever you are notified that your unit disturbs other wireless communication immediately.

Observe the following warnings when installing. (including whole assembly of the devices for system up)

❑ **Disconnect the lead from the negative (–) battery terminal before installation.**
Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.
Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection.
FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

❑ **Never use safety-related components for installation, grounding, and other such functions.**
Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.

❑ **Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.**

Safety Information (continued)

⚠ Warning

- ❑ **Check for piping, gasoline tank, electric wiring, and other items before installing the product.**
  If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.
- ❑ **Never install the product in a location where it interferes with your field of vision.**
- ❑ **After installation and wiring, you should check the normal operation of other electrical equipment.**
  The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.
- ❑ **In the case of installation to an airbag-equipping car, confirm warnings and cautions of the vehicle manufacturer before installation.**
- ❑ **Make sure the leads do not interfere with driving or getting in and out of the vehicle.**
- ❑ **Insulate all exposed wires to prevent short circuiting.**
- ❑ **If there seem to be something wrong with the system, park your car in a safe place and identify the abnormality.**

⚠Caution

Observe the following cautions when using this unit.

- ❑ **Keep the sound volume at an appropriate level.**
  Keep the volume level low enough to be aware of road and traffic conditions while driving.
- ❑ **This unit is designed for use exclusively in automobiles.**
- ❑ **Do not expose the unit to direct sunlight or excessive heat.**
  Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.
- ❑ **Do not use the product where it is exposed to water, moisture, or dust.**
  Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

Observe the following cautions when installing. (including whole assembly of the devices for system up)

- ❑ **Refer wiring and installation to qualified service personnel.**
  Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.
- ❑ **Follow the instructions to install and wire the product.**
  Not following the instructions to properly install and wire the product could cause an accident or fire.
- ❑ **Take care not to damage the leads.**
  When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

Safety Information (continued)

⚠Caution

- ❑ **Do not install the product where it is exposed to strong vibrations or is unstable.**
  Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.
- ❑ **Make sure that wiring is completed before installation.**
- ❑ **To prevent damage to the unit, do not connect the power connector until the whole wiring is completed.**
- ❑ **Secure the mobile phone to prevent it from moving while driving.**

The following applies only in the U.S.A.

Part 15 of the FCC Rules

FCC Warning:
Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 20 cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and legs).

NOTICE

This equipment has been tasted and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Customer Services Directory

U.S.A.

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:
http://www.panasonic.com/support
or, contact us via the web at:
http://www.panasonic.com/contactinfo
You may also contact us directly at:
1-800-211-PANA (7262),
Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases:

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:
http://www.pasc.panasonic.com
or, send your request by E-mail to:
npcparts@panasonic.com
You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday-Friday 9 am to 8 pm, EST.)

Panasonic Services Company
20421 84th Avenue South, Kent, WA 98032
(We accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.
Panasonic Sales Company
Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787) 750-4300, Fax (787) 768-2910

CANADA

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre:

Telephone #:	(905) 624-5505
1-800 #:	1-800-561-5505
Fax #:	(905) 238-2360
Email link:	“Contact Us” on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:

Link : “Servicentres™ locator” under “Customer support”

Panasonic Factory Service:

Vancouver

Panasonic Canada Inc.
12111 Riverside Way
Richmond, BC V6W 1K8
Tel: (604) 278-4211
Fax: (604) 278-5627

Toronto

Panasonic Canada Inc.
5770 Ambler Drive
Mississauga, ON L4W 2T3
Tel: (905) 624-8447
Fax: (905) 238-2418

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

Limited Warranty

U.S.A.

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA
One Panasonic Way, Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,
DIVISION OF PANASONIC PUERTO RICO, INC.
Ave. 65 de infanteria, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985

PANASONIC AUTO PRODUCTS LIMITED WARRANTY

LIMITED WARRANTY COVERAGE
If your product does not work properly because of defects in materials and workmanship.
Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated in the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor.

Categories	Parts	Labor
Audio Components (except items listed below)	One (1) Year	One (1) Year
MXE Series Audio Components (except items listed below)	Two (2) Years	Two (2) Years
Speakers	One (1) Year	Not Applicable
Accessories (in exchange for defective items)	Ninety (90) Days	Not Applicable

During the "Labor" warranty period, there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry in or mail in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

CARRY-IN OR MAIL-IN SERVICE
For Carry-In or Mail-In Service in the United States, call 1-800-211-PANA (7262) or visit
Panasonic Web Site: http://www.panasonic.com
For assistance in Puerto Rico, call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

LIMITED WARRANTY LIMITS AND EXCLUSIONS
This warranty ONLY COVERS failures due to defects in materials and workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred during shipment, failures which are caused by products not supplied by the warrantor, failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustment, maladjustment of consumer control, improper maintenance, improper antenna, inadequate signal reception or pickup, power line surge, improper voltage supply, lightning, modification, commercial use (such as use in hotels, offices, restaurants, or other business uses) or rental use of the product, or service by anyone other than the technician from Factory Servicenter or other authorized service centers, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.
(As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the ser-

vicer, and loss of media, data or other memory contents. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to warrantor's Consumer Affairs Department at the addresses of the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer's Record

Model No. _____

Serial No. _____

Dealer's No. _____

Code No. _____

Dealer's Address _____

Date of Purchase _____

CANADA

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga Ontario L4W 2T3

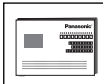
PANASONIC PRODUCT LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in materials and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

CAR AUDIO PRODUCT – ONE (1) YEAR, PARTS AND LABOUR
(The labour to install or remove the product is not warranted)

LIMITATIONS AND EXCLUSIONS
This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.
This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of the original purchase date is required before warranty service is performed.
THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.
In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

Components

	**Operating Instructions** (YFM284C529ZA) **Q'ty: 1**
	Owners Information Card **Q'ty: 1**
	Main Unit **Q'ty: 1**
	Switch Unit (2 m) (ASMYSW100U) **Q'ty: 1**
	Microphone with Bracket (5 m) (L0FBBB000005) **Q'ty: 1**

	System-up connecting cable (3 m) (YEAJ011812) **Q'ty: 1**
	Double-sided Tape (YFX994C128ZA) **Q'ty: 2**
	Double-sided Tape (YFX994C129ZA) **Q'ty: 1**
	Cable Clamp (YEP9FZ8466) **Q'ty: 5**

Note:

- The number in parentheses underneath each accessory part name is the part number for maintenance and service.
- Accessories and their part numbers are subject to modification without prior notice due to improvements.

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Introduction

Panasonic welcomes you to our constantly growing family of electronic products owners.
We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

❑ Overview

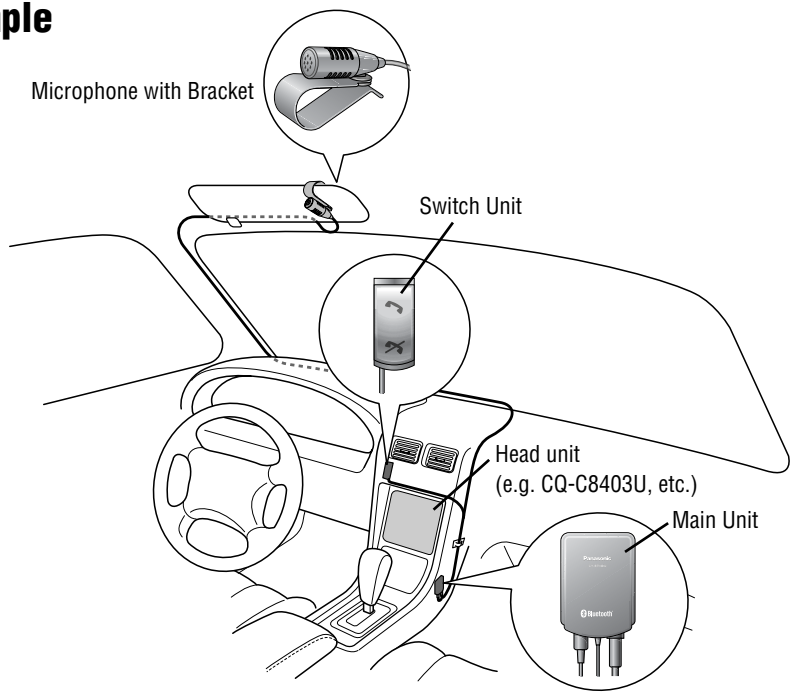
What's Hands-Free Kit featuring Bluetooth® technology (CY-BT100U) ?

Connection between this unit and the head unit (e.g. CQ-C8403U, CQ-C7403U, CQ-C5403U, etc.) allows users to "receive calls", "call back", and "reject incoming calls" without direct operation of Bluetooth-ready mobile phone. **This unit is designed only for receiving calls with taking account of safety. No call can be made with this unit.** (But a call-back call can be made.)
This unit does not support the voice dial function.

Note:

- Do not use the mobile phone very closely to this unit. Failure to observe this may cause low quality tone or bad connection condition.
- Do not use this unit and other wireless devices at the same time. Failure to observe this may cause interference between this unit and those devices.
- Bluetooth connection will make the battery life of mobile phone shorter.
- This unit cannot support the cable connection mobile phones.
- This unit (only 1 unit) is connectable to the head unit through the Expansion Module (CY-EM100U, option) as well as connectable to the head unit directly.

❑ Installation sample



Glossary

Bluetooth®
The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Matsushita Electric Industrial Co.,Ltd. is under license. Other trademarks and trade name are those of their respective owners.

Bluetooth
Bluetooth is a name of the wireless communication technology for the mobile information equipment such as portable PCs, PDAs, mobile phones, etc. These devices can be connected each other without cables and communicate each other.
Bluetooth uses 2.45 GHz band's wave that can be used without a license. Bluetooth chips are relatively small and their power consumption is low. Communication service distance of Bluetooth is approximately 10 m.

Bluetooth profile
Bluetooth profile is a standard protocol used in Bluetooth communications settled for each category of the communication equipment.
This hands-free unit supports the following Bluetooth profiles:
HFP (Hands Free Profile) Ver. 1.0

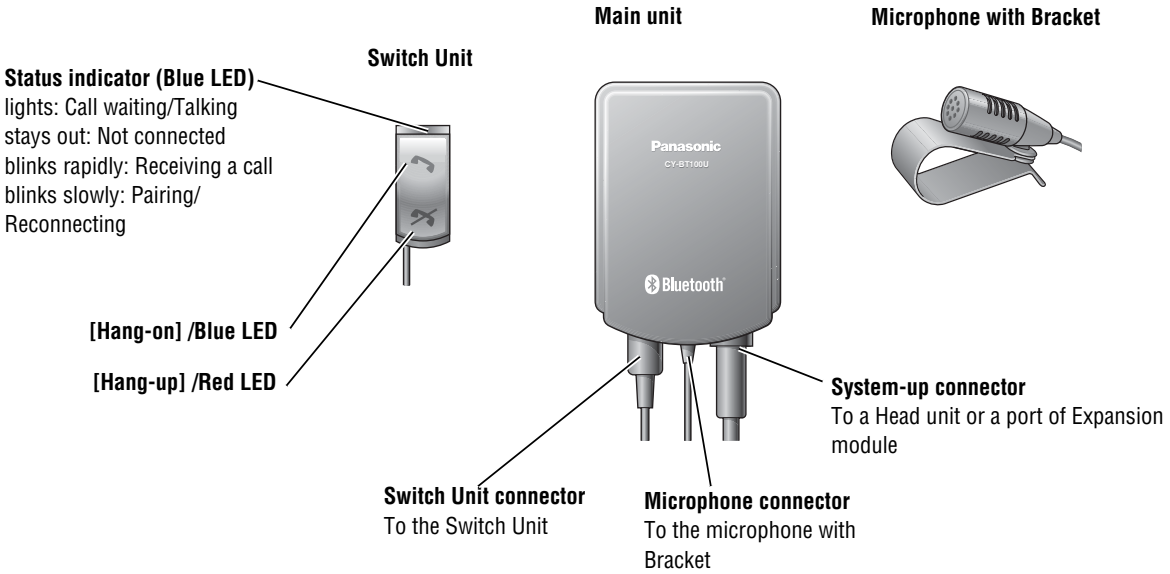
Link key
This is an up to 16-byte password used for device identification. Entering the same PIN number of the device to be connected allows identification. Once identification is completed, the Link key is established. Identification is enabled without input of the Bluetooth Pin Number from next time thanks to holding the Link key at both sides.

PIN (Personal Identification Number)
This is a password used for self identification.

Pairing
Pairing is authentication between 2 Bluetooth devices (This Hands-Free Kit featuring Bluetooth® technology and your mobile phone in this manual) with using a link key.
Pairing allows Bluetooth devices to communicate each other.

iPod®
iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Names of Controls and Functions



Preparation

Perform electrical wiring for the Hands-Free Kit featuring Bluetooth® technology and install it (➡ page 24, 25). Refer to the individual instructions for the devices to be connected as well.

1 Items for preparation

- Hands-Free Kit featuring Bluetooth® technology (CY-BT100U)
- Bluetooth-ready mobile phone

Note: For the models to be supported, visit the Web Site at: http://www.panasonic.com (Refer to the description regarding Car Audio/AV.)
We do not guarantee that all the functions of this unit are available on all mobile phones.

- Head unit

The models to be supported are shown below as of December 2005. CQ-C8803 /C8413 / C8313 / C8403 / C8303 / C7403 / C7303 / C7203 / C7103 / C5403 / C5303 / C3433 / C3403 / C3333 / C3303U / VD7003U, etc.

2 Pairing

This unit should register the Bluetooth mobile phone to be coupled before using.

Step 1

Turn on the power of the Head unit. (Pairing is enabled only when the power of the Head unit is on.)

Step 2

Press and hold the **[Hang-on]** until the indicator blinks slowly (for approximately 2 seconds).

(Press and hold **[Hang-up]** for more than 2 seconds to cancel.)

Note: Bluetooth devices other than paired should be switched off during pairing.

Step 3

Make ready your mobile phone for pairing. As for the pairing at the mobile phone's side, please refer to your mobile phone's manual.

Step 4
Enter a pin number “0000” into your mobile phone and connect. (➡ Manual of your mobile phone) These actions should be done within 60 seconds, or you may fail to pair.

Note: Depending upon the mobile phone, the connecting operations should be conducted separately.

Step 5
Wait until the indicator lights continuously (for approximately 20–30 seconds). Retry from **Step 2** when the indicator does not light.

Note:
- Only the latest paired mobile phone is usable.
- This unit is displayed as “CY-BT100” on the screen of the mobile phone.
- Once pairing is established, this operation is not required until replacing the phone with another mobile phone.

3 Microphone positioning

Position the microphone appropriately to catch sounds satisfactorily. The direction of the sun visor may change the volume.

4 Communication test on paired mobile phone

Check whether the paired mobile phone is available. (Call to the paired mobile phone.)

5 Volume adjustment (head unit)

Note: The volume is adjustable only when receiving calls.

❶ Adjust the ring volume.
The ring tone may come from the mobile phone depending on your head unit or mobile phone. Refer to the individual instructions for the head unit or mobile phone for details.
❷ Adjust the volume of telephone conversation.

Basic Operation

⚠ Caution

- Telephone conversation during driving may result in consequences adverse to safety. Follow your local lows and regulations.
- Appropriately adjust the volume of incoming calls in advance (➡ Operating instructions of your head unit).

This unit is designed only for receiving calls with taking account of safety. No call can be made with this unit. (But a call-back call can be made.)

❑ Receiving a call

When a call comes in, the state indicator blinks rapidly.

1 Press the **[Hang-on]** to receive a call.

2 Adjust the volume if necessary. (➡ Operating instructions of your head unit).

3 Press the **[Hang-up]** to end a call.

Note:

- Bluetooth connection will make the battery life of mobile phone shorter.
- Depending upon the mobile phone, the display backlight of a mobile phone remains on when ACC is in the ON position. In this case, you should turn off the backlight with the mobile phone (➡ Manual of your mobile phone).
- Do not turn off the power of the Head unit during a phone conversation. Otherwise, some mobile phones cut the conversation.
- In some cases such as the manner mode, the ring tone is disabled while the ring tone is set to off.

❑ Automatic reconnection

When you get out of the car, turning off the power of the Head unit allows automatic disconnection of communication between this unit and the mobile phone. After communication is disconnected, the mobile phone can be used as usual.

When you get in the car, turning on the power of the Head unit allows automatic connection of communication between this unit and the mobile phone. (Some mobile phone models require automatic connection setting. In some cases, connection setting is required on the selection screen appearing on the mobile phone while connection is established.) After communication is connected, the hands-free function is available.

Advanced Operation

❑ Calling back

A call-back call can be made.
However, the callback function is disabled after disconnecting Bluetooth communication. (e.g. communication disconnection between the Bluetooth unit and mobile phone, and communication disconnection by turning off the power of the Head unit)

Step 1

Press the **[Hang-on]** after a call comes in.

Step 2

Confirm the telephone number on the Head unit.

Step 3

Press the **[Hang-on]** to make a call.

(Press **[Hang-up]** to activate cancellation.)

Note: Some mobile phones cannot display the telephone number of an incoming call or call back.

❑ Rejection of incoming calls

Press the **[Hang-up]** to reject an incoming call.

❑ Disconnection of Bluetooth

You can disconnect Bluetooth temporarily.

Disconnection

Press and hold the **[Hang-up]**. for more than 2 seconds until the indicator putting out (approximately 2 seconds) to reject call on this unit.

Reconnection

Press **[Hang-on]**. The LED turns from blinking to permanent.

Note: You cannot disconnect Bluetooth in the talking state but end a call.

Installation

⚠Warning

- This installation information is designed for professional installers with knowledge of automobile electrical safety systems and is not intended for non-technical, do-it-yourself individuals. It does not contain instructions on the electrical installation and avoidance of potential harm to air bag, anti-theft and ABS braking or other systems necessary to install this product. Any attempt to install this product in a motor vehicle by anyone other than a professional installer could cause damage to the electrical safety systems and could result in serious personal injury or death.
- If your car is equipped with air bag and/or anti-theft systems, specific procedures may be required for connection and disconnection of the battery to install this product. Before attempting installation of this electronic component against the manufacturer's recommendation, you must contact your car dealer or manufacturer to determine the required procedure and strictly follow their instructions.

FAILURE TO FOLLOW THE PROCEDURE MAY RESULT IN THE UNINTENDED DEPLOYMENT OF AIR BAGS OR ACTIVATION OF THE ANTI-THEFT SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

❑ Installation Hardware

①		**Main Unit** **Q'ty: 1**
②		**Switch Unit (2 m)** **Q'ty: 1**
③		**Microphone with Bracket (5 m)** **Q'ty: 1**
④		**System-up Connecting cable (3 m)** **Q'ty: 1**
⑤		**Double-sided Tape** (12 x 55 mm) **Q'ty: 2**
⑥		**Double-sided Tape** (15 x 30 mm) **Q'ty: 1**
⑦		**Cable Clamp** **Q'ty: 5**

⚠ Caution

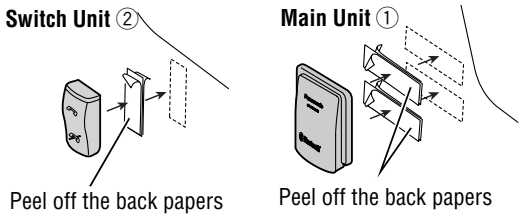
- Make sure that wiring is completed before installation.
- Do not install the product where it is exposed to strong vibrations or is unstable. Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.

1 Remove the cable from the battery negative terminal.

2 Connect all cables of the Hands-Free Kit featuring Bluetooth® technology.

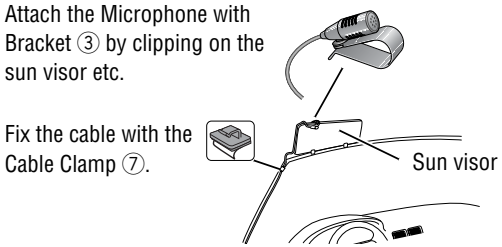
3 Secure the Main unit ①, Switch Unit ② and Microphone with Bracket ③.

❶ Attach the Main unit ① and the Switch Unit ② with the double-sided tape ⑤ ⑥.



❷ Secure the microphone with bracket ③.

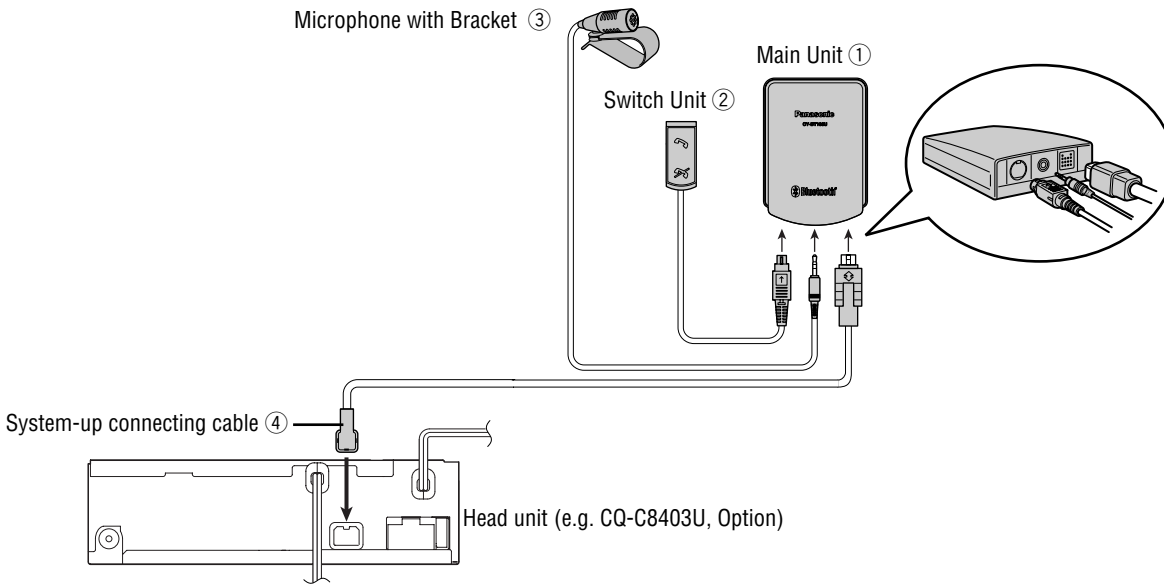
❸ Secure all connection cables with Cable Clamp ⑦.



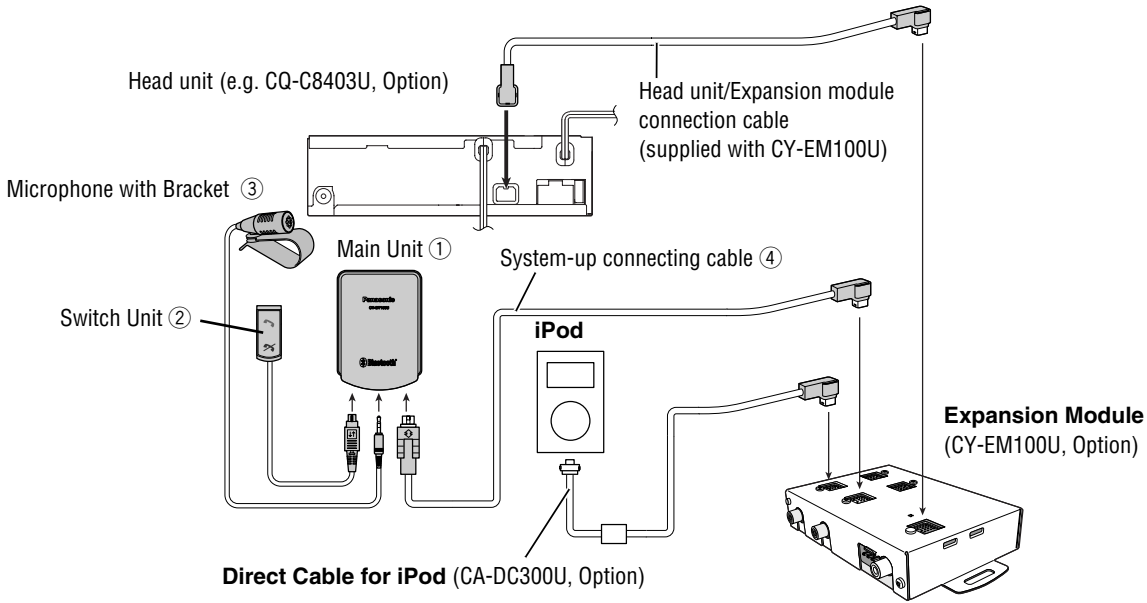
4 Reconnect the Battery Cable.

Wiring

Connection between the Hands-Free Kit featuring Bluetooth® technology and head unit



Connection among the Hands-Free Kit featuring Bluetooth® technology and two or more devices


Head unit (e.g. CQ-C8403U, Option)
Head unit/Expansion module connection cable (supplied with CY-EM100U)
Microphone with Bracket ③
Main Unit ①
System-up connecting cable ④
Switch Unit ②
iPod
Expansion Module (CY-EM100U, Option)
Direct Cable for iPod (CA-DC300U, Option)

Troubleshooting

If You Suspect Something Wrong

Check and take steps as described below.
If the described suggestions do not solve the problem, it is recommended to take the unit to your nearest authorized Panasonic Servicenter. The product should be serviced only by qualified personnel. Please refer the checking and the repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking.

⚠Warning

- Do not use the unit in an irregular condition, for example, without sound, or with smoke or a foul smell, which can cause ignition or electric shock. In case that such conditions occur, immediately stop using this unit and consult your dealer.
- Never try to repair the unit by yourself because it is dangerous to do so.

Problem	Possible cause ➡ **Possible solution**
The paired mobile phone cannot be automatically reconnected.	The Bluetooth function of the mobile phone is disabled. (Some mobile phones are turned off in a predetermined time in the power-saving mode or the like.) ● **Refer to the operating instructions for the mobile phone and change the setting.**
	The mobile phone is selected to the setting so that automatic reconnection is not permitted. ● **Refer to the operating instructions for the mobile phone and change the setting.**
	Bluetooth connection is lost by key operation. ● **Establish Bluetooth connection again by key operation.** ∗ If Bluetooth connection is not successfully established, delete “CY-BT100” from the mobile phone pairing list, and try pairing again.

Problem	Possible cause ➡ **Possible solution**
Failure to pair a mobile phone	There is the other wireless equipment near the unit. ● **Switch off the other wireless equipment or keep it away from these bluetooth units.**
	The mobile phone (or main unit) is touched or covered by metal objects. Or the mobile phone is hidden or far from the main unit. ● **Move the mobile phone (or main unit) away from metal objects or from the hiding position.** ∗ Consult your dealer to move the main unit.
	The mobile phone is not HFP (Hands Free Profile)-ready even it is Bluetooth-ready. ● **Use an HFP-ready and Bluetooth-ready mobile phone in consideration of each version.**
	The Link key of this unit is different from the Link key of the mobile phone. ● **Delete "CY-BT100" from the mobile phone pairing list, and try pairing again.**
The mobile phone cannot be automatically connected.	Some mobile phone models fail to connect automatically via Bluetooth. ● **Once turn off the power of the mobile phone and turn on the power again.** ∗ If Bluetooth connection is not successfully established, delete "CY-BT100" from the mobile phone pairing list, and try pairing again.

Troubleshooting (continued)

Problem	Possible cause ➡ **Possible solution**
The Hands-Free Kit featuring Bluetooth® technology cannot receive a call.	The head unit is set to OFF. ● **Turn on the power of the head unit.**
	The Hands-Free Kit featuring Bluetooth® technology is set to the disconnection mode. ● **Cancel the disconnection mode.**
	Your mobile phone is out of service area. ● **Drive your car to the service area of your mobile phone.**
	Bluetooth connection is disconnected. (The blue indicator does not light up.) ● **Establish Bluetooth connection again.**
	The mobile phone is selected to the setting so that the ring volume is zero such as the manner mode. ● **Refer to the operating instructions for the mobile phone and change the setting. (The ringtone of some mobile phones does not come from the speakers mounted in a car but only from the mobile phones.)**
The hands-free voices accompany the echo or howling.	Distance between the microphone and the speaker is too short. ● **Keep sufficient distance between the microphone and the speakers or decrease the volume of voice (Refer to the manual of your Head unit.).** ∗ Echo may be produced depending on the line status or mobile phone to be used.

Problem	Possible cause ➡ **Possible solution**
The voice quality of hands-free is low (Distortion, noise etc.).	There is another wireless device near the unit. ● **Switch off the wireless device or keep it away from these bluetooth units.**
	Distance between the Hands-Free Kit featuring Bluetooth® technology and the mobile phone is too long or by contraries, too short. ● **Keep proper distance between the Hands-Free Kit featuring Bluetooth® technology and the mobile phone.**
	The reception condition of the mobile phone is poor, or the line status is bad. ● **Use the mobile phone in areas with good reception condition.**
Telephone conversation is suspended.	Receiving condition of your mobile phone is bad. ● **Drive your car to the place where receiving condition is good and park your car in a safe place with parking brake used, and then you make a call.**
The phone conversation is hard to hear.	If you and the person on the other end of the line talk at the same time, you may have difficulty to hear his or her voice, and vise versa. (This is not machine failure.) ● **The telephone conversation should be conducted alternately.**

Troubleshooting (continued)

Problem	Possible cause ➡ **Possible solution**
Talking volume is low or noisy. (claim from the person on the other end of the line)	Distance between the microphone and the talker is too long or the connection of microphone is not proper. ● **Make the microphone closer to the talker. Or connect the microphone's connector properly.**
	The window is open, or the air conditioner blows air to the microphone. ● **Close the window, change the air direction from the air conditioner, or change the microphone position.**
A call-back call cannot be made.	Some mobile phones do not send Bluetooth data even if incoming calls are indicated on the screen of your mobile phone. ● **A call-back call cannot be made.**
	The calling party activates the caller ID blocking function. ● **A call-back call cannot be made.**
	An international call was received. ● **A call-back call may not be made internationally depending on a contract with the mobile phone company. Check the contract.**

Problem	Possible cause ➡ **Possible solution**
The Hands-Free Kit featuring Bluetooth® technology is not feasible.	The Switch Unit is disconnected. ● **Connect the Switch Unit securely and properly.**
	The power of the Head unit is set to off. ● **Turn on the power of the Head unit.**
	For other than the above ● **Turn on and off the power of the Head unit.** ● **Turn on and off the ACC of the car or the mobile phone.**
Audio output comes out of the mobile phone after reconnection.	For some mobile phone models, audio output does not switch to the hands-free kit automatically. ● **Refer to the instruction manual for the mobile phone regarding audio switching.**

Specifications

Power supply	: DC 12 V (11 – 16 V), test voltage 14.4 V, negative ground (Supplied from a head unit or a Expansion Module)
Current consumption	: Less than 1.0 A
Communication Frequency	: 2 402 MHz – 2 480 MHz
Number of channels	: 79 channels
Channel width	: 1.0 MHz
Communication mode	: Frequency hopped spread spectrum communication
RF output	: –1 dBm (0.8 mW)
Service area	: Within 10 m
Applicable Bluetooth version	: Ver. 1.2
Microphone impedance	: 600 Ω
Dimensions (W x H x D)	: 72.8 x 102 x 24 mm {2 7/8″ x 4″x 15/16″} (Excluding Switch Unit and Microphone)
Weight	: 0.5 kg {1 lbs. 16 oz} (Excluding Switch Unit and Microphone)

Note:

- Specifications and design are subject to modification without notice due to improvements.
- Some figures and illustrations in this manual may be different from your product.

FCC ID:ACJ932CY-BT100U

Canada: License No
IC: 216J-CYBT100U

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STAMP
HERE

Panasonic
P. O. Box 17688
Denver, Colorado 80217

MARKETING RESEARCH DEPARTMENT
Please do not send any correspondence or products to this address.

91-C

Please fold here.

What is your occupation? (check one)

1. ☐ Professional/Technical
2. ☐ Upper Mgt./Administrator
3. ☐ Sales/Service/Middle Mgt.
4. ☐ Clerical/White Collar
5. ☐ Craftsman/Blue Collar
6. ☐ Student
7. ☐ Housewife
8. ☐ Retired

Which of the following interests and hobbies do you and your family enjoy ?

1. ☐ Tennis
2. ☐ Golf
3. ☐ Snow Skiing
4. ☐ Running/Jogging
5. ☐ Camping/Hiking
6. ☐ Hunting/Shooting
7. ☐ Fishing
8. ☐ Bicycling
9. ☐ Racquetball
10. ☐ Sailing/Boating
11. ☐ Stamp/Coin Collecting
12. ☐ Motorbiking/Motorcycling
13. ☐ Home Video Games
14. ☐ Physical Fitness/Exercise
15. ☐ Home Video Recording
16. ☐ Recreational Vehicle/4-WD
17. ☐ Photography
18. ☐ CB Radio
19. ☐ Home Workshop/Do-it-Yourself
20. ☐ Gardening/Plants
21. ☐ Electronics
22. ☐ Automotive Work
23. ☐ Sewing/Needlework
24. ☐ Crafts
25. ☐ Collectibles/Collections
26. ☐ Atr & Antiques
27. ☐ Stereo Music Equipment
28. ☐ Foreign Travel
29. ☐ Attending Cultural/Arts Events
30. ☐ Gourmet Foods/Cooking
31. ☐ Health/Natural Foods
32. ☐ Wines
33. ☐ Fashion Clothing
34. ☐ Home furnishings/Decorating
35. ☐ Records & Tapes
36. ☐ Avid Book Reading
37. ☐ Science Fiction
38. ☐ Astrology/Occult
39. ☐ Stock/Bond Investments
40. ☐ Real Estate Investments
41. ☐ Self Improvement Programs
42. ☐ Community/Civic Activities

We appreciate your taking the time to complete this card; the information provided will help us serve you better in the future. We participate in a multi-company program whereby you can receive information about new product, development trend etc. related to the interest areas and other information you have indicated above. Please check here if you would prefer not to learn about such products and services. ☐

Other comments & suggestions about our product:

_____

_____

YFM074C157ZA

RESPOND PROMPTLY AND RECEIVE AN "EARLY BIRD" DISCOUNT!

USE THE CONVENIENCE OF OUR TOLL-FREE CUSTOMER CARE PLAN HOTLINE:

USA ONLY

Panasonic

An extended service plan that assures continued top performance of your electronic product after the factory warranty has expired!

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 110 ELGIN IL

POSTAGE WILL BE PAID BY ADDRESSEE

CUSTOMER CARE PLAN ADMINISTRATION
PANASONIC SERVICES COMPANY
1703 N. RANDALL RD
ELGIN IL 60123-9964

☐ **Labor to complete repairs.**
☐ **Replacement parts.**
☐ **Electronic or mechanical adjustments.**
☐ **Specified internal cleaning.**
☐ **Requested preventive maintenance.**
☐ **No hidden charges or deductibles. Complete coverage for one low, up-front price.**
☐ **Coverage is transferable.**

Service is performed by our nationwide network of conveniently located Factory or Local Authorized Servicenters.

Certain restrictions apply: 1) Offered only in the United States with the exception of Florida; 2) Applications for coverage are subject to final acceptance by our company.

Just complete the attached postage paid postcard and drop it in the mail. We will contact you promptly with more information about the Customer Care Plan.

1-800-637-2007

OFFERED AND ADMINISTERED BY:
Customer Care Plan Administration
PANASONIC SERVICES COMPANY
1703 N. Randall Road
Elgin, IL 60123-9964

I OWN A: ☐ ☐ ☐

Model No.	Date of Purchase
Serial No.	

I would like more information regarding the "Early Bird" discount offer for the manufacturers extended service plan. I understand that you will promptly contact me with more information

(Please Print)

Name _____

Address _____ Apt. _____

City _____ State _____ Zip _____

( ) _____ _____ A.M. _____ P.M.
Phone Best time to call

Seal card here

Panasonic PURCHASE INFORMATION CARD

Thank you for purchasing this Panasonic product. In order to serve you better in the future, we would appreciate your answering the following questions. Your return of this card will enable us to contact you regarding this product should the need arise. Your assistance is greatly appreciated.

1. Mr. 2. Mrs. 3. Ms. 4. Miss 91C

First Name & Initial _____ Last Name _____

Street _____

City _____ State _____ Zip _____

Date of Purchase: Mo. Day. Yr.

Area Code _____ Telephone Number _____

Model No.: _____

Serial No.: _____

Type of store where purchased
1. ☐ Department store
2. ☐ Appliance/Radio/TV
3. ☐ Discount
4. ☐ Drug
5. ☐ Hardware
6. ☐ Catalog showroom
7. ☐ Automobile dealer
8. ☐ Military PX, etc.
9. ☐ Hi-Fi store
10. ☐ Catalog mail order
11. ☐ Car sound specialist
12. ☐ Other: _____

How did you first learn of this product?
1. ☐ Magazine advertisement
2. ☐ Newspaper advertisement
3. ☐ Television advertisement
4. ☐ Direct mail
5. ☐ Store display
6. ☐ Friend's recommendation
7. ☐ Salesperson's recommendation
8. ☐ Radio advertisement
9. ☐ Other: _____

Check the two (2) most important factors influencing your selection of this product:
1. ☐ Trust in Panasonic
2. ☐ Price
3. ☐ Quality/Performance
4. ☐ Features
5. ☐ Appearance/Design
6. ☐ Ease of operation
7. ☐ Compactness
8. ☐ Warranty
9. ☐ Ease of installation
10. ☐ Other: _____

What two (2) product features most Influenced your selection of this Panasonic Model?
1. ☐ Style/Appearance
2. ☐ Sound quality
3. ☐ Electronic tuning
4. ☐ Auto reverse
5. ☐ Better magnetic head
6. ☐ Noise quieting (INQ)/FM optimizer
7. ☐ High power
8. ☐ Dolby/CrO_2 capability
9. ☐ Separate Bass/Treble controls
10. ☐ Four way fader
11. ☐ Push button tuning
12. ☐ Other: _____

Please indicate the type of vehicle in which your unit is installed AND the number of speakers used:
1. ☐ Domestic
2. ☐ Imported
3. ☐ Recreational vehicle
4. ☐ Van/Truck
5. ☐ New car
6. ☐ Within 3 months you bought
7. ☐ 2 speakers
8. ☐ 4 speakers
9. ☐ More than 4 speakers
10. ☐ Other: _____

Which of the following have you done in the past 6 months? (check all that apply)
1. ☐ Redeemed a product coupon
2. ☐ Ordered an item from a mail order catalog
3. ☐ Sent in a product inquiry card from magazine
4. ☐ Bought an item from offer received in mail
5. ☐ Entered sweepstakes/contest

Month and year of your birth:
Mo. Yr.

Marital status:
1. ☐ Married
2. ☐ Single

Which group best describes your family income:
1. ☐ Under $10,000
2. ☐ $10,000–$14,999
3. ☐ $15,000–$19,999
4. ☐ $20,000–$24,999
5. ☐ $25,000–$29,999
6. ☐ $30,000–$34,999
7. ☐ $35,000–$39,999
8. ☐ $40,000–$44,999
9. ☐ $45,000–$49,999
10. ☐ $50,000–$ over

Do you have any children in any of the following age groups who are living at home?
1. ☐ Under age 2
2. ☐ Age 2–4
3. ☐ Age 5–7
4. ☐ Age 8–10
5. ☐ Age 11–12
6. ☐ Age 13–15
7. ☐ Age 16–18

For your primary residence, do you:
1. ☐ Own a house?
2. ☐ Rent a house?
3. ☐ Own a townhouse/condominium?
4. ☐ Rent an apartment?

Which of the following types of credit cards do you use?
1. ☐ Travel/Entertainment (American Express, Diners Club, Carte Blanche)
2. ☐ Bank (Master Charge, Visa)
3. ☐ Gas department store, etc.